Firmware: CHRYSLER Remote Start Ready Installation





**Update Alert**: Firmware updates are posted on the web on a regular basis. We recommend that you check for firmware and/or install guide updates prior to installing this product.

## Installation Guide









This guide supports the installation of a DBALL in Remote Start Ready (RSR) mode with or without a Plug & Play (CHTHD1 or CHTHD2) T-Harness (Optional). This solution offers three (3) configuration options to control your system; 3x OEM Lock Remote Start Activation\*, RF Kit or SmartStart (all sold separately). Refer to page 24 for a list of RF kits and their part numbers.

\*3x OEM Lock Remote Start Activation is a feature that allows users to control the aftermarket remote starter using the factory (OEM) remote control. See page 2 for more information.





Note: Only available on certain models, check the Vehicle Application Guide for compatibility with specific year and model.



Remote Start Ready (RSR) is a function that enables the interface module to remote start the vehicle completely on its own. Consequently, there is no need for an aftermarket or an OEM remote starter in order to start the vehicle from a distance. An RSR solution is commonly referred to as a Standalone installation.



## mportant!

This product is NOT compatible with vehicles equipped with a manual transmission.

ı	n	d	ex
	ш	u	CV

Important Information	02
Vehicle Application Guide	03
Installation	
Type 1a (with T-Harness)	04
Type 1b (without T-Harness)	05
Type 2a (with T-Harness)	07
Type 2b (without T-Harness)	
Type 3a (with T-Harness)	
Type 3b (without T-Harness)	
Type 4a (with T-Harness)	
Type 4b (without T-Harness)	
Type 5 (without T-Harness)	16
2000 ( 000000000)	
Programming	
Module Programming and Reset for Installation Types 1 to 4	18
Module Programming and Reset for Installation Type 5	20
Module Reset	21
Feature and Option List	
Feature Programming.	
readure i rogramming	~~
LED Diagnostics and Troubleshooting	23
Optional RF Kits	2/
Using a DBALL-CHRYSLER RSR	29
Limited One-Year Consumer Warranty	21



## SmartStart Compatible

See page 2 for more information.

† Chrysler, Dodge, Jeep and Volkswagen are registered trademarks and property of their respective companies.



Firmware: CHRYSLER Remote Start Ready Installation



Page 2

## **Important Information**

#### 3x OEM Lock Remote Start Activation

This feature enables you to start/stop the vehicle using the OEM remote.

Press the OEM remote LOCK button three (3) times within three (3) seconds to start the vehicle. To stop the vehicle, press the LOCK button three (3) more times.



The OEM remote lock and unlock functions are inactive when the key is inserted into the ignition; therefore, the 3x OEM Lock Remote Start Activation feature cannot be used for idle mode.

## **SmartStart Compatible**

#### Important!



SmartStart 200/250 **Revision B** is equipped with D2D, which means it can be connected to an interface module and used in Remote Start Ready (RSR) mode without the use of a remote starter.

In order to use the SmartStart 200/250 **Revision B** with an interface, you must enable the D2D mode within SmartStart by grounding the loose gray wire coming out of the device, as well as connecting it to the web to complete its configuration.

Firmware: CHRYSLER Remote Start Ready Installation



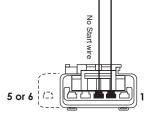
Page 3

# **Vehicle Application Guide**

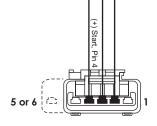
Vehicles	2012	2011	2010	2009	2008	2007	2006	2005	2004	AV-Parking Lights Control	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Sliding Door Control Driver	DL-Sliding Door Control Passenger	DL-Trunk / Hatch Release	FOB-Control of aftermarket alarm with OEM remote	KI-Chrysler MUXX Activation	KI-Key & Ignition.switch Interface	PK-Immobilizer Bypass-Data No Key Req'd	RS 3x LOCK START (Start control using OEM Remote)	RS-RAP Shut Down (Remote ACC Power)	RS-Remote Start Ready	RS-Remote Start Ready Std Ign-RFTD	RS-Smart Start	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Driver Door Pin	SS-Entry Monitoring Trunk/Hatch Pin	ST-Brake Status (foot brake)	ST-Hand Brake Status	ST-Ignition Status	ST-Keysense Status
Chrysler																																			
200	$oxed{oxed}$	3	oxdot								٠	٠		٠	٠			٠	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠		٠	٠		٠	•
300/300c			2	2	2				Ш	٠	٠	٠		٠	٠			٠	٠		$\vdash$	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
300/300c						4	4	4	Ш		٠	٠		٠	٠			٠	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
Aspen	oxdot		_	3	3	3					٠	٠		٠	٠			٠	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠.	٠	•
Pacifica	$oxed{oxed}$		_		5	5	5	5	5		٠	٠		٠	٠			٠	٠	٠	Ш	٠	٠		٠	٠	٠	٠	٠		٠	٠		٠	•
PT Cruiser	_		4	4	4	4	4				٠	٠		٠	٠				٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠		٠	٠	٠.	٠	•
Sebring	$oxed{oxed}$		3	3	3	3					٠	٠	·	٠	٠			٠	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠		٠	٠	٠.	٠	•
Sebring Convertible			3	3	3						٠	٠		٠	٠			٠	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
Sebring Sedan	乚		3	3	3	3			Ш		٠	٠		٠	٠	$oxed{oxed}$	<u> </u>	٠	٠	٠	Ш	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠.	٠	•
Town & Country	1	1	1	1	1				Ш	•	٠	٠		٠	٠		٠	٠	٠	$ldsymbol{ld}}}}}}}}$	oxdot	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠.	٠	•
Town & Country						5	5	5	5		٠	٠		٠	٠		٠	٠	٠	٠	Ш	•	٠		٠	٠	٠	٠	٠		٠	٠	$\bot$	٠	•
Dodge	12		10	09	08	07	06	05	04																										
Avenger	oxdot	3	3	3	3			ட	Ш		٠	٠		٠	٠			٠	٠	٠	╙	•	•	٠	٠	٠	٠	٠ _	٠	٠	٠	٠	٠ _	٠	•
Caliber		3	3	3	3	3* or 4*	3* or 4*				٠	٠		٠	٠				٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠
Caravan	1	1	1	1	1					٠	٠	٠		٠	٠	٠	٠	٠	٠		·	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠
Caravan						5	5	5	5		٠	٠		٠	٠	٠	٠	٠	٠	٠	Ш	•	٠		٠	٠	٠	٠	٠	٠	٠	•		٠	٠
Challenger		1	1	1	1					٠	٠	٠		٠	٠			٠	٠		·	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠
Challenger (Smart Key)		1	1	1	1					٠	٠	٠		٠	٠			٠	٠		·	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠
Charger			2	2	2					٠	٠	•		٠	٠			•	•			•	٠	•	٠	•	٠	٠	٠		٠	٠		•	•
Charger						4	4				٠	•		٠	٠			•	•	٠		•	٠	•	٠	•	٠	٠	٠		٠	٠		•	•
Dakota		3	3	3	3	3					٠	•		٠	٠				•	٠		•	٠	•	٠	•	٠	٠	٠			٠		•	•
Durango		1								٠	٠	•		٠	٠				•			•	٠	•	٠	•	٠	٠	٠		٠	٠		•	•
Durango				3	3	3					٠	•		٠	٠				•	٠		•	٠	•	٠	•	٠	٠	٠		٠	٠		•	•
Grand Caravan	1	1	1	1	1					٠	٠	٠		٠	٠	٠	٠	٠	٠			•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠.	٠	•
Grand Caravan						5	5	5	5		٠	٠	•	٠	٠	٠	•	•	٠	٠		٠	٠		•	٠	٠	٠	٠	٠	٠	•		•	٠
Journey			1	1							٠	٠	•	٠	٠				٠		•	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	•	•	•	٠
Magnum					2					٠	٠	٠	•	٠	٠				٠		•	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	•	•	•	٠
Magnum						4	4	4			٠	٠	•	٠	•				٠	٠		•	٠	٠	•	•	٠	٠	•	•	•	•	•	•	•
Nitro		3	3	3	3	3					٠	٠	•	٠	•				٠	٠		•	٠	٠	•	•	٠	٠	•	•	•	•	•	•	•
RAM	1	1	1	1						٠	٠	٠	•	٠	•				٠		•	•	٠	٠	•	•	٠	٠	•	•		•	•	•	•
RAM					3	3	3* or 4*				٠	٠	•	٠	•				٠	٠		•	٠	٠	•	•	٠	٠	•	•		•	•	•	•
Jeep	12	11	10	09	08	07	06	05	04																										
Commander			2	2	2						٠	٠		٠	•			•	•		•	•	٠	٠	•	•	٠	٠	•	•	•	•	•	•	•
Commander	匚	oxdot	匚	匚		4	4	匚			٠	•	•	٠	٠	匚	匸	٠	٠	٠	ш	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠		٠	٠
Compass		3	3	3	3	3					٠	٠		٠	٠			oxdot	٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠
Grand Cherokee	匚	1	匚	匚				匚		٠	٠	•	•	٠	٠	ட	匸	[لـــا	٠		$ \cdot $	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠		٠	٠
Grand Cherokee	匚	oxdot	2	2	2			匚			٠	•		٠	٠	ட	匸	[لـــا	٠		$ \cdot $	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠		٠	•
Grand Cherokee						4	4	4			٠	٠		٠	٠				٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•
Grand Cherokee (Smart Key)		1								٠	٠	٠		٠	٠				٠		$ \cdot $	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•
Liberty		3	3	3	3						٠	٠		٠	٠			oxdot	٠	٠	ш	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠		٠	•
Patriot	3	3	3	3	3	3					٠	٠		٠	٠				٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠		٠	•
Wrangler	3	3	3	3	3	3					٠	٠		٠	٠				٠	٠	Ш	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠		٠	•
Wrangler Unlimited	3	3	3	3	3	3					٠	•	•	٠	٠				•	٠	Ш	•	٠	٠	٠	٠	٠	•	•		٠	•		٠	٠
Mitsubishi	12	11	10	09	08	07	06	05	04																										
Raider	$\Box$		$\Box$	3	3	3		L	Ш		٠	•	•	٠	٠				•	٠	ட	•	٠	٠	٠	٠	٠	٠	•			•		٠	٠
Ram	12	11	10	09	08	07	06	05	04																										
1500	1	$oxedsymbol{oxed}$	oxdot	ـــــــــــــــــــــــــــــــــــــــ	$oxed{oxed}$			ட	Ш	•	٠	٠		٠	٠			Ш	٠		∟⊥	•	٠	٠	٠	٠	•	٠	٠	٠		٠	٠ _	٠	٠
2500	1		辶		$oxed{oxed}$					٠	٠	٠		٠	٠		<u> </u>	Ш	٠		·	•	٠	٠	٠	٠	٠	٠	٠			٠	٠.	٠	٠
3500	1		辶		$oxed{oxed}$				Ш	٠	٠	٠		٠	٠		<u> </u>	Ш	٠	$ldsymbol{ld}}}}}}$	·	•	٠	٠	٠	٠	٠	٠	٠			٠	٠.	٠	٠
C/V	1	L						oxdot	Ш	٠	•	٠	<u> </u>	٠	٠	Ŀ	٠.	ŀ	٠		oxdot	•	•	٠	٠	٠	·	ŀ	٠	ŀ	١.	•	ŀ	٠	•
Volkswagen		11			08	07	06	05	04				_																						
Routan	1	1	1	1	1	l	I	I		•	•	•	١.	•		١.				1	I • I	•	•						•	١.		•			

<sup>\*</sup>To select the proper install type, locate the ignition switch connector and select your install type as illustrated below:





Installation Type 4 has a Start wire



Connector side view at ignition switch

Connector side view at ignition switch

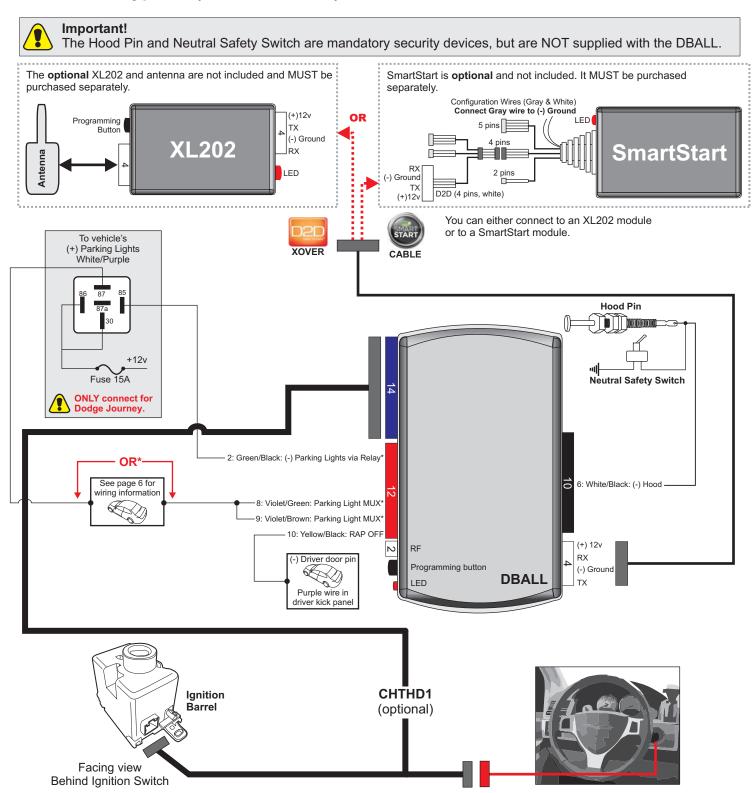


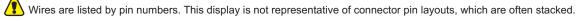
Firmware: CHRYSLER Remote Start Ready Installation



Page 4

## **Installation Type 1a (with T-Harness)**





<sup>\*</sup>See Parking Lights wiring reference chart for the appropriate Parking Lights configuration.

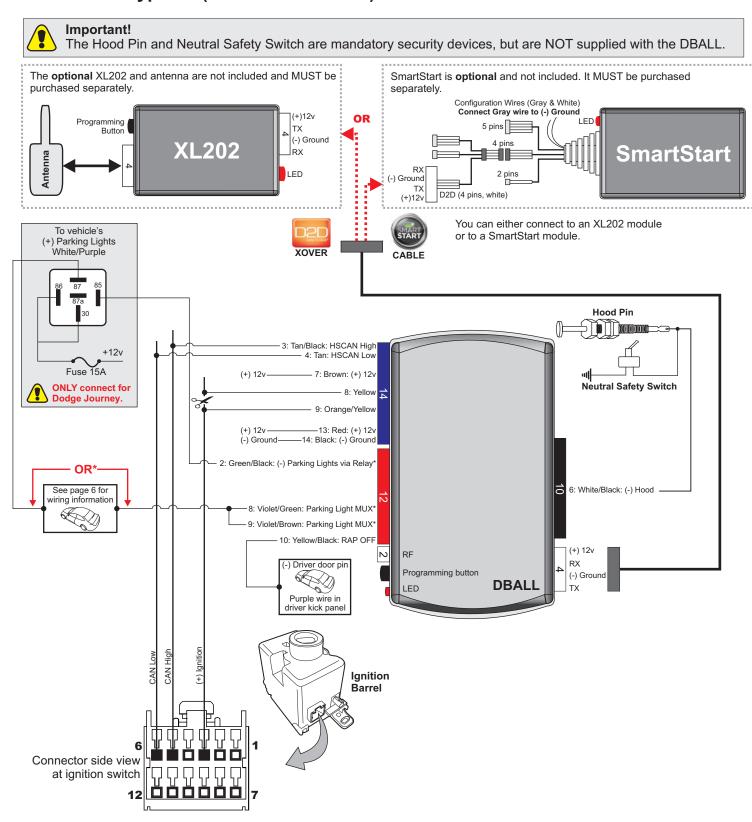


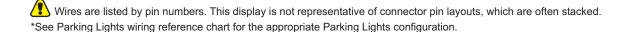
Firmware: CHRYSLER Remote Start Ready Installation



Page 5

## **Installation Type 1b (without T-Harness)**







Firmware: CHRYSLER Remote Start Ready Installation

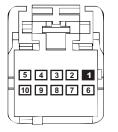


Page 6

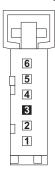
# Parking Light Vehicle Wiring Reference Chart (Type 1)

Vehicle	Years Vehicle Wire Location on vehicle		Location on vehicle	(+) / (-)	DBALL Output from 12 Pin connector			
Chrysler								
Town & Country	2011+	White/Green	Black connector at light switch, pin 3	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Town & Country	2008-10	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Dodge								
Caravan	2011+	White/Green	Black connector at light switch, pin 3	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Caravan	2008-10	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Challenger	2008-11	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Challenger (Smart Key)	2008-11	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Durango	2011+	White/Green	Black connector at light switch, pin 3	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Grand Caravan	2011+	White/Green	Black connector at light switch, pin 3	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Grand Caravan	2008-10	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Journey	2009-10	White/Purple	Passenger kick panel	(+)	2: Green/Black: (-) Parking Lights via Relay			
RAM	2009-12	White	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Jeep		ı						
Grand Cherokee	2011+	White/Green	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Grand Cherokee (Smart Key)	2011+	White/Green	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Ram		ı						
1500	2012	White	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
2500	2012	White	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
3500	2012	White	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
C/V	2012	White	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Volkswagen		·						
Routan	2011+	White/Green	Black connector at light switch, pin 3	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			
Routan	2009-10	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX			

# Light switch, black 10-pin plug



# Light switch, black 6-pin plug

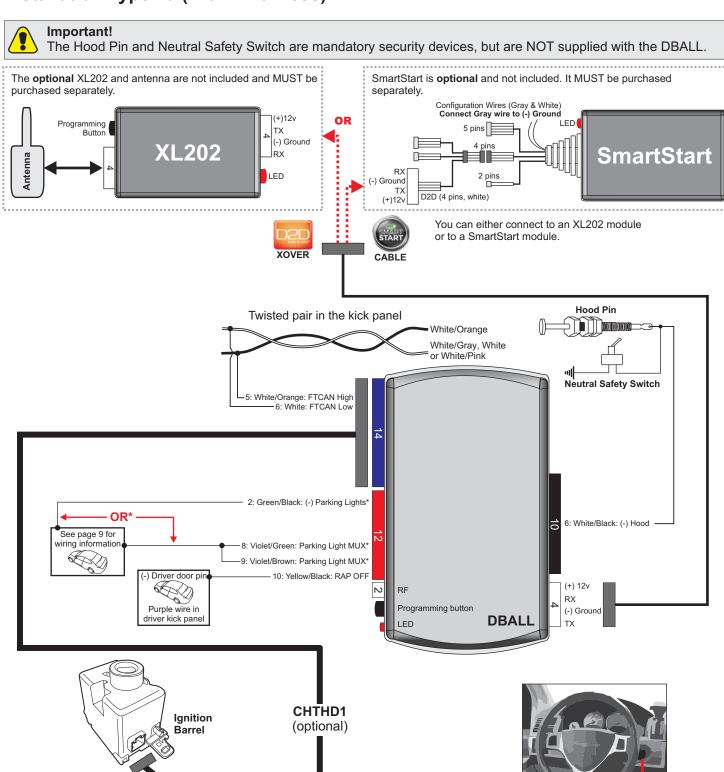


Firmware: CHRYSLER Remote Start Ready Installation



Page 7

## **Installation Type 2a (with T-Harness)**



Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked. \*See Parking Lights wiring reference chart for the appropriate Parking Lights configuration.



Facing view
Behind Ignition Switch

Firmware: CHRYSLER Remote Start Ready Installation

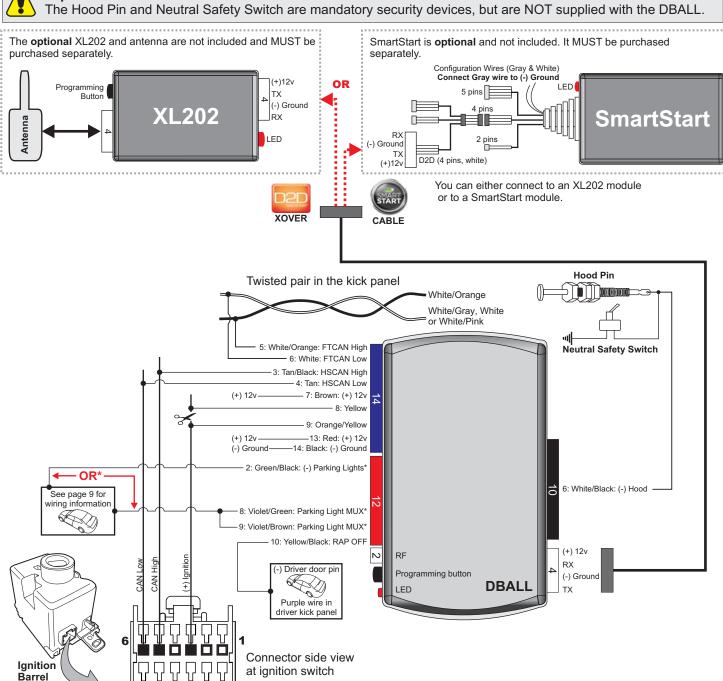


Page 8

## **Installation Type 2b (without T-Harness)**



#### Important!





Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.

\*See Parking Lights wiring reference chart for the appropriate Parking Lights configuration.



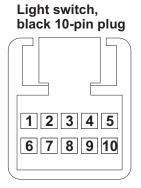
Firmware: CHRYSLER Remote Start Ready Installation

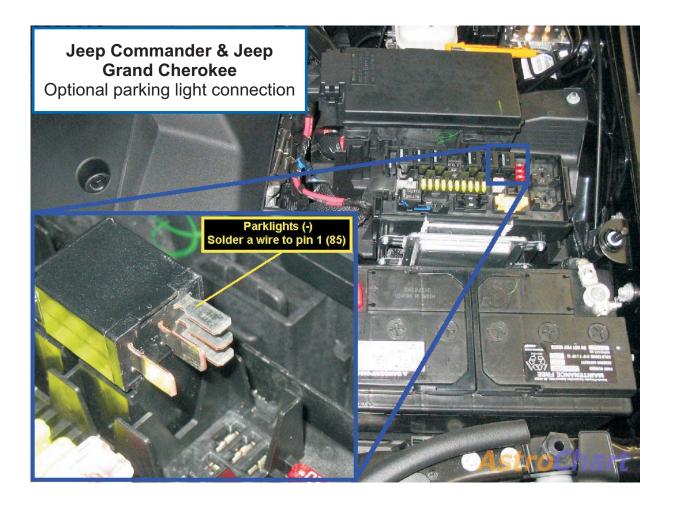


Page 9

# Parking Light Vehicle Wiring Reference Chart (Type 2)

Vehicle	Years	Vehicle Wire	Location on vehicle	(+) / (-)	DBALL Output from 12 Pin connector					
Chrysler										
300/300c	2008-10	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX					
Dodge										
Charger	2008-10	White/Brown	Black connector at light switch, pin 1		8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX					
Magnum	2008	White/Brown	Black connector at light switch, pin 1	MUX	8: Violet/Green: Parking Light MUX 9: Violet/Brown: Parking Light MUX					
Jeep										
Commander	2008-10	White/Dk. Blue	Hazar light switch	(-)	2: Green/Black: (-) Parking Lights					
Grand Cherokee	2008-10	White/Dk. Blue	Hazar light switch	(-)	2: Green/Black: (-) Parking Lights					



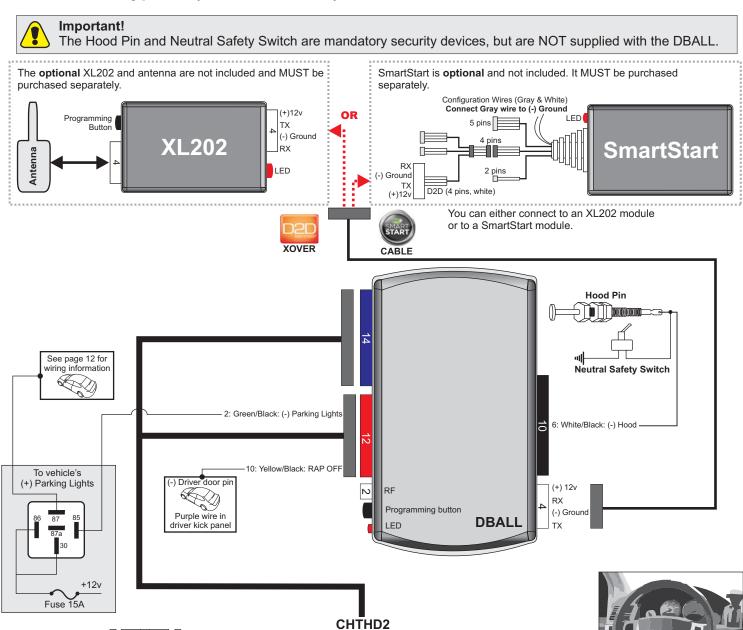


Firmware: CHRYSLER Remote Start Ready Installation



Page 10

## **Installation Type 3a (with T-Harness)**



(optional)



Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.



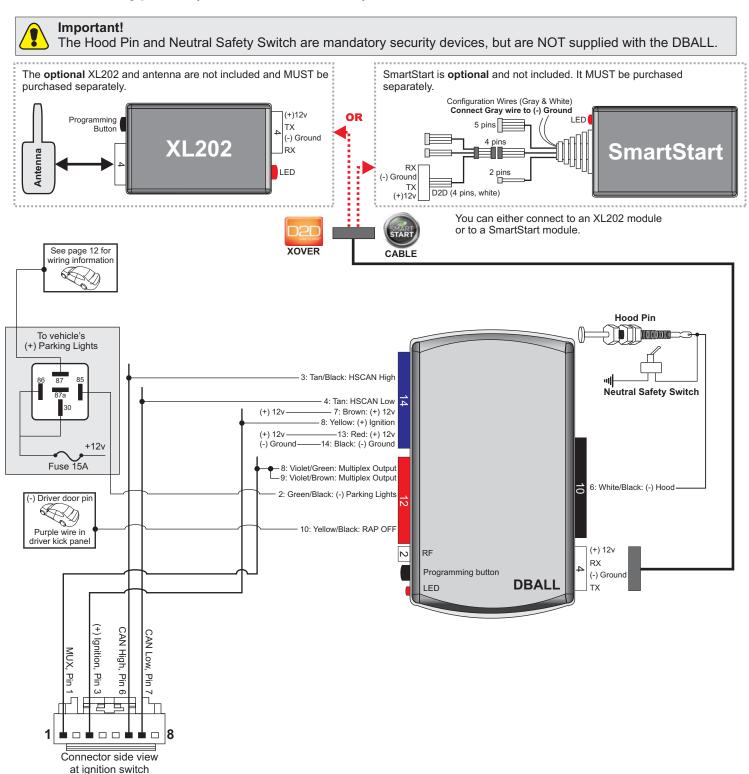
Connector side view at ignition switch

Firmware: CHRYSLER Remote Start Ready Installation



Page 11

## **Installation Type 3b (without T-Harness)**





Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.



Firmware: CHRYSLER Remote Start Ready Installation

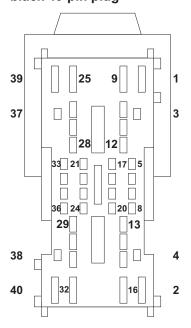


Page 12

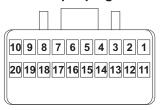
# Parking Light Vehicle Wiring Reference Chart (Type 3)

Vehicle	Years	Wire	(+) / (-)	Location
Chrysler				
200	2011	White/Violet	(+)	Driver kick panel
Aspen	2007-09	Pink/Red	(+)	Driver kick fuse box, black 40-pin plug, pin 6
Sebring	2007-10	White/Violet	(+)	Driver kick panel
Sebring Convertible	2008-10	White/Violet	(+)	Driver kick panel
Sebring Sedan	2007-10	White/Violet	(+)	Driver kick panel
Dodge				
Avenger	2008-11	White/Violet	(+)	Driver kick panel
Caliber	2007-11	White/Violet	(+)	Driver kick panel
Dakota	2007-11	Pink/Red	(+)	Underhood fuse box, black 20-pin plug, pin 15
Durango	2007-09	Pink/Red	(+)	Driver kick fuse box, black 40-pin plug, pin 6
Nitro	2007-11	White/Violet	(+)	Driver kick panel
RAM	2006-08	White/Gray	(+)	Above driver kick, gray 74-pin plug, pin 19
Jeep				
Compass	2007-11	White/Violet	(+)	Driver kick panel
Liberty	2008-10	White/Violet	(+)	Driver kick panel
Patriot	2007-12	White/Violet	(+)	Driver kick panel
Wrangler	2007-12	White/Violet	(+)	Passenger kick panel
Wrangler Limited	2007-12	White/Violet	(+)	Passenger kick panel
Mitsubishi				
Raider	2007-09	Pink/Red	(+)	Underhood fuse box, black 20-pin plug, pin 15

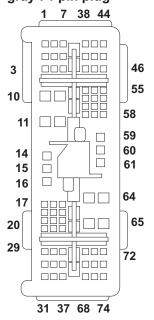
# Driver kick fuse box, black 40-pin plug



# Underhood fuse box, black 20-pin plug



# Above driver kick, gray 74-pin plug

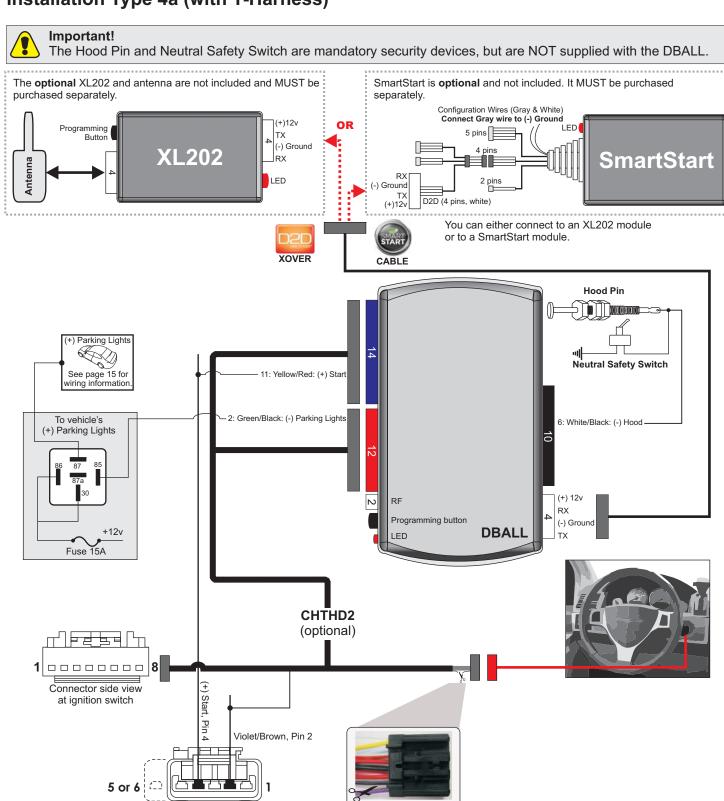


Firmware: CHRYSLER Remote Start Ready Installation



Page 13

## **Installation Type 4a (with T-Harness)**





Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.

Connector side view

at ignition switch

Cut Purple/Brown

(on female end)

wire, Pin 8



Firmware: CHRYSLER Remote Start Ready Installation



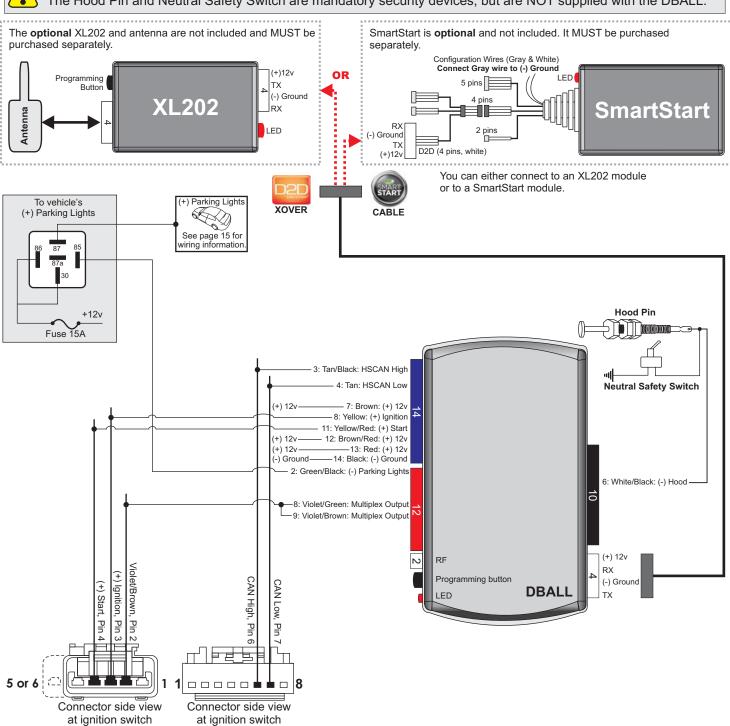
Page 14

## **Installation Type 4b (without T-Harness)**



#### Important!

The Hood Pin and Neutral Safety Switch are mandatory security devices, but are NOT supplied with the DBALL.





Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.



Firmware: CHRYSLER Remote Start Ready Installation

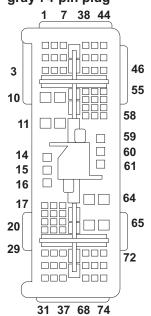


Page 15

# Parking Light Vehicle Wiring Reference Chart (Type 4)

Vehicle	Years	Wire	(+) / (-)	Location
Chrysler				
300/300c	2005-07	White/Violet	(+)	Passenger kick panel
PT Cruiser	2006-10	White/Violet	(+)	Driver kick panel
Dodge				
Caliber	2007-11	White/Violet	(+)	Driver kick panel
Charger	2006-07	White/Violet	(+)	Passenger kick panel
Magnum	2005-07	White/Violet	(+)	Passenger kick panel
RAM	2006	White/Gray	(+)	Above driver kick, gray 74-pin plug, pin 19
Jeep				
Commander	2006-07	White/Dk. Blue	(-)	Hazard light switch
Grand Cherokee	2005-07	White/Dk. Blue	(-)	Hazard light switch

# Above driver kick, gray 74-pin plug

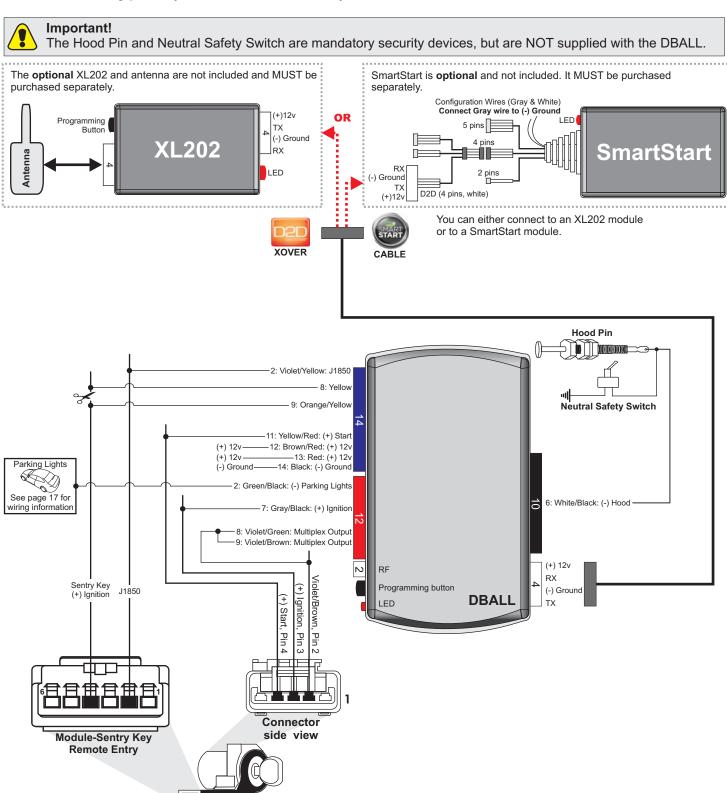


Firmware: CHRYSLER Remote Start Ready Installation



Page 16

## **Installation Type 5 (without T-Harness)**





Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.



Firmware: CHRYSLER Remote Start Ready Installation

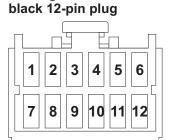


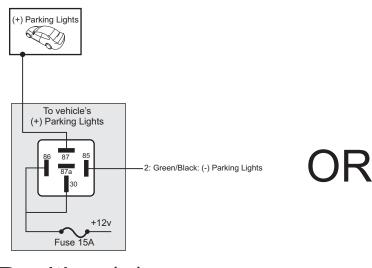
Headlight switch,

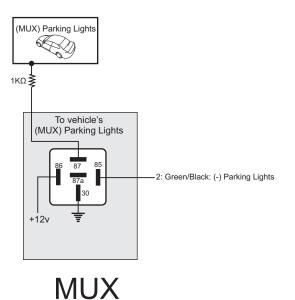
Page 17

# Parking Light Vehicle Wiring Reference Chart (Type 5)

Vehicle	Years	Wire	(+) / (-)	Location				
Chrysler								
Pacifica	2004-08	Brown/White (-1K)	MUX	Headlight switch, black 12-pin plug, pin 6				
Town & Country	2004-07	White/Orange	(+)	Driver kick panel				
Dodge								
Caravan	2004-07	White/Orange	(+)	Driver kick panel				
Grand Caravan	2004-07	White/Orange	(+)	Driver kick panel				







Firmware: CHRYSLER Remote Start Ready Installation



## Module Programming for Installation Types 1 to 4 (WITH Factory Keyless)

Page 18



Refer to the LED Diagnostics section on page 23 for more information and for troubleshooting purposes.

#### **Important**

Make all the required connections to the vehicle, as described in the wiring diagram(s) found in this guide, and double check to ensure everything is correct prior to moving onto the next step.

Note: Before connecting either the XL202 or SmartStart module to DBALL, it is important to ensure that the proper communication protocol is enabled on DBALL using XpressVIP. This selection is done by:

- 1. Going to www.xpresskit.com.
- 2. Selecting the make, model and year of the vehicle.
- 3. On the search result page, click on the **Flash it** button.
- 4. The flash page will then be displayed listing the D2D type settings. Make your selection and flash the module.

To use DBALL with an:

- RF Kit and XL202, D2D (RFTD) must be selected.
- SmartStart (Revision B), D2D (SmartStart) must be selected.

#### Warning against resetting the DBALL module before executing the programming sequence!

Warning against resetting the DBALL induite before executing the programming objections. Therefore, if you reset A reset will erase all the settings configured on the module using the web tool (see the above instructions). Therefore, if you reset before executing the programming sequence, you will HAVE to re-flash the module in order to re-configure the desired options.

### **DBALL Module Programming**

Connect the SmartStart or XL202 unit into the D2D port of the DBALL prior to connecting the power.



Connect the 10-pin, 12-pin and 14-pin harnesses to DBALL, then wait until the LED turns ON solid red or flashes orange.







**Key Ignition** 

Insert the key into the ignition barrel and turn it to the ON position.

It is important to wait for the LED to start flashing green. Refer to the LED Diagnostics section on page 23 for troubleshooting if the LED does not flash green within 15 seconds.



Push-to-Start (PTS) Ignition

Important: Do NOT press the brake pedal. Press the Push-to-Start (PTS) button twice to turn the ignition ON.





It is important to wait for the LED to start flashing green. Refer to the LED Diagnostics section on page 23 for troubleshooting if the LED does not flash green within 15 seconds.



Turn the key to the OFF position and remove it from the ignition barrel.



Press the Push-to-Start (PTS) button once more to turn the ignition OFF.



Press LOCK or UNLOCK on the factory transmitter. The LED turns ON solid green OR orange for 3 seconds and then turns off.













Important! If connected to a SmartStart, please ensure that its Gray wire is connected to a ground source or the D2D communication between the two (2) modules will NOT work.



Firmware: CHRYSLER Remote Start Ready Installation



Page 19 Module Programming for Installation Types 1 to 4 (WITHOUT Factory Keyless)

🔼 Refer to the LED Diagnostics section on page 23 for more information and for troubleshooting purposes.

### **Important**

Make all the required connections to the vehicle, as described in the wiring diagram(s) found in this guide, and double check to ensure everything is correct prior to moving onto the next step.

Note: Before connecting either the XL202 or SmartStart module to DBALL, it is important to ensure that the proper communication protocol is enabled on DBALL using XpressVIP. This selection is done by:

- 1. Going to www.xpresskit.com.
- 2. Selecting the make, model and year of the vehicle.
- 3. On the search result page, click on the **Flash it** button.
- 4. The flash page will then be displayed listing the D2D type settings. Make your selection and flash the module.

To use DBALL with an:

- RF Kit and XL202, **D2D (RFTD)** must be selected.
- SmartStart (Revision B), D2D (SmartStart) must be selected.

#### Warning against resetting the DBALL module before executing the programming sequence!

A reset will erase all the settings configured on the module using the web tool (see the above instructions). Therefore, if you reset before executing the programming sequence, you will HAVE to re-flash the module in order to re-configure the desired options.

## **DBALL Module Programming**

Connect the SmartStart or XL202 unit into the D2D port of the DBALL prior to connecting the power.



Connect the 10-pin, 12-pin and 14-pin harnesses to DBALL, then wait until the LED turns ON solid red or flashes orange.



Insert the key into the ignition barrel and turn it to the ON position.

It is important to wait for the LED to start flashing green.\*

\* Refer to the LED Diagnostics section on page 23 for troubleshooting if the LED does not flash green within 15 seconds.



Press and hold the Programming Button. The LED turns ON solid green OR orange for 3 seconds and then turns OFF. Release the Programming button.



Turn the key to the OFF position and remove it from the ignition barrel.



Important! If connected to a SmartStart, please ensure that its Gray wire is connected to a ground source or the D2D communication between the two (2) modules will NOT work.

Firmware: CHRYSLER Remote Start Ready Installation



Page 20

## Module Programming for Installation Type 5



Refer to the LED Diagnostics section on page 23 for more information and for troubleshooting purposes.

## **Important**

Make all the required connections to the vehicle, as described in the wiring diagram(s) found in this guide, and double check to ensure everything is correct prior to moving onto the next step.

Note: Before connecting either the XL202 or SmartStart module to DBALL, it is important to ensure that the proper communication protocol is enabled on DBALL using XpressVIP. This selection is done by:

- 1. Going to www.xpresskit.com.
- 2. Selecting the make, model and year of the vehicle.
- 3. On the search result page, click on the Flash it button.
- 4. The flash page will then be displayed listing the D2D type settings. Make your selection and flash the module.

To use DBALL with an:

- RF Kit and XL202, **D2D (RFTD)** must be selected.
- SmartStart (Revision B), D2D (SmartStart) must be selected.

### Marning against resetting the DBALL module before executing the programming sequence!

A reset will erase all the settings configured on the module using the web tool (see the above instructions). Therefore, if you reset before executing the programming sequence, you will HAVE to re-flash the module in order to re-configure the desired options.

## **DBALL Module Programming**

Connect the SmartStart or XL202 unit into the D2D port of the DBALL prior to connecting the power.



Connect the 10-pin, 12-pin and 14-pin harnesses to DBALL, then wait until the LED turns ON solid red.



Insert the key into the ignition barrel without turning it and wait for the LED to flash orange.



Insert the key into the ignition barrel and turn it to the ON position. The LED will continue to flash orange. It will then turn ON solid green OR orange for 3 seconds, before turning OFF.

Refer to the LED Diagnostics section on page 23 for troubleshooting if the LED does not turn ON solid green OR orange within 15 seconds.



When the green LED turns OFF, turn the key to the OFF position and remove it from the ignition barrel.



Important! If connected to a SmartStart, please ensure that its Gray wire is connected to a ground source or the D2D communication between the two (2) modules will NOT work.





Page 21

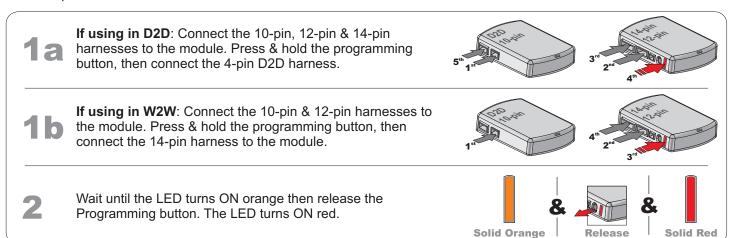
## **DBALL Module Reset**



Refer to the LED Diagnostics section on page 23 for more information and for troubleshooting purposes.

### Warning against resetting the DBALL module before executing the programming sequence!

A reset will erase all the settings configured on the module using the web tool (see the above instructions). Therefore, if you reset before executing the programming sequence, you will HAVE to re-flash the module in order to re-configure the desired options.





Page 22

## **Feature and Option List**



It is recommended to configure all features and options listed below on the **web** when the module is being flashed; however, a manual configuration is possible using the information found on this page.

Features	Operation	Option					
1	RF Output Type**  Activate this feature whenever an external	No RF Output*					
'	RFTD module is used (i.e. Directed SmartStart <sup>™</sup> , XL201 or XL202).	RFTD Output					
		No Option					
2	Trunk	Trunk*					
2	Hulik	Right Sliding Door					
		Left Sliding Door					
		No Option					
3	Aux1	Trunk					
3	Auxi	Passenger Sliding Door*					
		Driver Sliding Door					
		No Option					
4	Aux2	Trunk					
4	Auxz	Passenger Sliding Door					
		Driver Sliding Door*					



The RF Output Type function must be set to **RFTD Output** to enable the Remote Start Ready (RSR) mode.

It will automatically be configured on the web when flashed with the selected D2D\_TYPE D2D (RFTD) or D2D (SmartStart).

Any module reset will reset to default option.

Note: Features 2, 3 and 4 are programmable triggers.

## **Feature Programming**



## To enter feature programming routine

- Turn the ignition ON, then OFF.
- Within 5 seconds, press and HOLD the programming button until the LED turns ON orange (after 3 seconds). Release the Programming button.
- The LED will flash green once slowly to indicate the feature number is 1. After a short delay, the LED flashes red rapidly to indicate the current option of feature 1 (i.e. 1x green followed by 1x red indicates feature 1 is set to option 1). The flashing sequence will repeat until a new command is entered.

#### Changing feature options

- Press the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature.
- The LED flashes red rapidly the number of times equal to the current option number. After a short delay, the LED flashes green slowly the number of times to indicate the current feature. The flashing sequence will repeat until a new command is entered.

#### **Accessing another feature**

- Press and release the programming button a number of times to advance from the current feature to the next desired feature.
- The LED flashes green slowly the number of times equal to the feature number. After a short delay, the LED flashes red rapidly to indicate the current option of the current feature. The flashing sequence will repeat until a new command is entered.

When the maximum number of features or options is reached, the LED will start flashing again from the first feature or option.

#### Once a feature is programmed

- Other features can be programmed.
- The feature programming can be exited.

#### **Exiting feature programming**

- No activity for 30 seconds; after 30 seconds, the LED will turn ON orange for 2 seconds to confirm the end of the programming sequence.
   OR
- Press and HOLD the programming button for 3 seconds. After 3 seconds, the LED will turn ON orange for 2 seconds to confirm the end of the programming sequence.



<sup>\*</sup> Default option

Firmware: CHRYSLER Remote Start Ready Installation



Page 23

# **LED Diagnostics and Troubleshooting**

LED	Status	Description	Troubleshooting			
Module	Programming					
Off	Off	Module has no power.	Check the power connections.			
Solid	Solid red	The bus type cannot be detected.	Make sure the connections to the data bus are correct and insert the key in the ignition switch.			
Flashes	Flashes orange	The vehicle type cannot be detected.	Insert the key in the ignition switch and turn to the ON position. You may need to wait up to 10 seconds.			
	Elachae groop	Waiting for keyless.	Remove the key from the ignition switch and press a keyless button.			
Flashes	Flashes green	The Programming button was held while powering up.	A reset occured. Release the button. The LED should turn solid red.			
Solid x3 secs	Solid green for 3 seconds	Module was successfully programmed or is already programmed.	Normal operation.			
Solid x3 secs	Solid orange for 3 seconds	Types 1-5: Module was successfully programmed without diagnostics.	Normal operation.			
Active	Ground While Ru	nning				
Off	Off	Ground While Running (status) off.	Make sure the module was programmed, i.e. the D2D harness is properly connected <b>or</b> the Ground While Running (status) wire is connected.			
Flashes	Flashes green	Ground While Running (status) on.	Normal operation.			
Inactive	Ground While R	Running				
Flashes 1x	Flashes green once (1)	Lock function has been executed.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.			
Flashes 2x	Flashes green twice (2)	Unlock function has been executed.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.			
Flashes 3x	Flashes green three (3) times	Trunk release function has been executed.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.			
Flashes 4x	Flashes green four (4) times	AUX1 or AUX2 function has been executed.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.			



Page 24

# **Optional RF Kits**



Note: RF kits are sold SEPARATELY. Request an order from Directed using the part numbers listed below.

#### 9211VL



Viper 1-way Responder ONE - Plug & Play RF kit with XL202.

UPC: 093207 08488 1 Also available as:

• Python: 9211PL Clifford: 9211XL

#### 9153VL



Viper 1-way - Plug & Play RF kit with XL202.

UPC: 093207 05660 4

Also available as: • Python: 9153PL Clifford: 9153XL

### 9251VL



Viper 2-way Responder LE - Plug & Play RF kit with XL202.

UPC: 093207 08489 8

Also available as: • Python: 9251PL Clifford: 9251XL

### 9752VL



Viper 2-way LC3 - Plug & Play RF kit with XL202.

UPC: 093207 08490 4

Also available as: • Python: 9752PL Clifford: 9752XL



Firmware: CHRYSLER Remote Start Ready Installation



Page 25

# **Optional RF Kits**



Note: RF kits are sold SEPARATELY. Request an order from Directed using the part numbers listed below.



Astrostart 2-way LED Receiver kit with up to 1,500' of range.

UPC: 093207 08752 3

Astrostart 2-way LCD Receiver kit offering XRT<sup>™</sup> technology with up to 5,000' of range.

UPC: 093207 08753 0



#### **AS-RFK1700**



Autostart 1-way Receiver kit with up to 3,000' of range.

UPC: 093207 08738 7

Autostart 2-way LED Receiver kit offering  $HDR^{^{\text{\tiny{TM}}}}\, technology \ with \ u\bar{p}$ to 3,000' of range.

UPC: 093207 08739 4





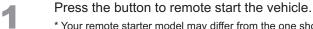


Firmware: CHRYSLER Remote Start Ready Installation



Page 26

## **Using your DBALL-CHRYSLER RSR**



\* Your remote starter model may differ from the one shown in the illustration.



Enter the vehicle, while making sure the key is inside with you.

**Enter vehicle** with the Smart Key in hand

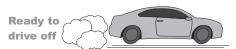


Important: Do NOT press the brake pedal. Press the Push-to-Start (PTS) button twice to turn the ignition ON.





You can now put the car in gear and drive off.



Firmware: CHRYSLER Remote Start Ready Installation



Page 27

## **Limited One Year Consumer Warranty**

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. ("DIRECTED") promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the "Part"), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer's name, address, telephone number, the authorized licensed dealer's name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

TO THE MAXIMUM EXTENTALLOWED BY LAW, EXCEPTAS STATED ABOVE, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NONINFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED HEREBY DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING DEALERS OR INSTALLERS. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER'S PURCHASE PRICE OF THE PART. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER ALIMITED WARRANTY TO REPLACE OR REPAIR AT DIRECTED'S OPTION THE PART AS DESCRIBED ABOVE.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State. DIRECTED does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this Part.

920-0007 2009-09

This Interface kit / Data Bus Interface part has been tested on the listed vehicles. Other vehicles will be added to the select vehicle list upon completion of compatibility testing. Visit website for latest vehicle application guide. DISCLAIMER: Under no circumstances shall the manufacturer or the distributors of the bypass kit / data bus interface part(s) be held liable for any consequential damages sustained in connection with the part(s) installation. The manufacturer and it's distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.: Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.

Protected by U.S. Patents: 5,719,551; 6,011,460 B1 \*; 6,243,004 B1; 6,249,216 B1; 6,275,147 B1; 6,297,731 B1; 6,346,876 B1; 6,392,534 B1; 6,529,124 B2; 6,696,927 B2; 6,756,885 B1; 6,756,886 B2; 6,771,167 B1; 6,812,829 B1; 6,924,750 B1; 7,010,402 B1; 7,015,830 B1; 7,031,826 B1; 7,046,126 B1; 7,061,137 B1; 7,068,153 B1; 7,205,679 B1; Cdn. Patent: 2,320,248; 2,414,991; 2,415,011; 2,415,023; 2,415,027; 2,415,038; 2,415,041; 2,420,947; 2,426,670; 2,454,089; European Patent: 1,053,128; Pat. Pending: 2,291,306. Made in Canada.

Additional information can be found at:

www.xpresskit.com www.directechs.com

